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*Microbiology and Pharmacology*  
*Athar's Important Questions*

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*With you step by step.....*



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## Microbiology

1. Which of the following could be the causative agent of exudative pharyngitis?

Answer: group A,B hemolysis and we give them antibiotics

2. Could MRSA be part of the normal flora in URT?

Answer: Yes, especially in the nose, but it can cause infection, especially in people prolonged hospital admission with underlying disease or after antibiotics use

3. A 5 years old child came to the hospital with (Abrupt onset of throat and neck pain, fever and inspiratory stridor, muffled phonation or aphonia and difficult swallowing, drooling ) the clinical presentations of acute epiglottitis , you do a X-ray & this was the result , what is the most common causative organism?

Answer : H.influenza type b



4. Which of the following could be the causative agent of exudative pharyngitis?

Answer : Group A streptococcus (B-hemolysis) (S. Pyogenes) & we should give antibiotic

5. Why do vaccines synthesis yearly ?

Answer: because it depends on the most Virulent strains in the year before

6. Is there a difference in the number of segments between influenza A, B & C ?

Answer: influenza A&B virus genome comprise 8 negative-sense, single stranded viral RNA , while influenza C virus has a 7 segment genome



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7. If you know that the most cause of infection In Irbid H1N1 and in Amman H3N2, then there is an emergence of a new variant H3N1, that occurs because of what?

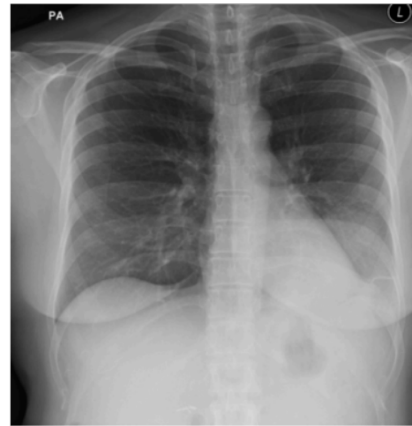
Answer: antigenic shift (Reassortment)

8. A patient with URTI & has ocular symptoms, what is the causative virus (mainly)?

Answer: adenovirus

9. What is the most likely causative microorganism?

Answer : S. pneumonia



10. One of the diseases that is caused by Haemophilus influenza is?

Answer: Acute epiglottitis

11. The last pandemic was caused by which of the following viruses?

Answer: SARS-COV2

12. Which of the following is correct about SARS-COV2?

Answer: enveloped, single stranded positive sense RNA virus

13. SARS-COV2 is a part of which of the following major antigenic groups of coronaviridae?

Answer: betacoronavirus



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14. Which of the below is correct considering the pathogenesis of sars cov2

- A. it infects type 1 alveolar cells of the respiratory tract
- B. the hemagglutinin protein helps the virus attach to its target cell
- C. it depends on the Ace2 receptor present on the type 2 alveolar cells
- D. the replication within the cytoplasm of the cell eventually causes the immediate rupture and lyses of the cell
- E. the virus is limited to the lungs in its infections

Answer: C



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## Pharmacology

15. Most common resistant drug in TB ?

Answer: Rifampin

16. Which of the following antimycobacterial drugs is inactivated by hepatic acetylation, the rate of which depends on genetic background?

- A. Streptomycin.
- B. Ethambutol.
- C. Rifampin.
- D. Isoniazid.
- E. Pyrazinamide.

Answer: D

